Technical Data Sheet

Accelerator COB 6

created 02-01-06 . revised :

CobaltOctoate
CAS#136-52-7
Liquid mixture in Xylene

$(C_7H_{15}COO^-)_2\ Co^{2+}$

Description:

Violet coloured liquid, consisting of cobalt octoate with a cobalt content of 6% w/w diluted with xylene. In combination with ketone peroxides, hydroperoxides or peresters these products are used as accelerators for the curing of unsaturated polyester resins.

Technical data:

Appearance.....violet coloured mobile liquid
Cobalt content.....approx. 6% w/w
Diluent.....xylene
Density at 20°C…….....approx. 0.95 g/cm3
Viscosity at 20°C.....approx. 25 mPa•s
Flash point (SETA) ..... approx. 26°C
Miscibility..... miscible with UP resin, styrene, etc., immiscible with water
Storage stability as from date of delivery ……..... 6 months

Application:

Accelerators in combination with ketone peroxides for curing at ambient temperature or at elevated temperatures together with peresters or hydroperoxides. Suitable in particular for resin types based on ortho- or isophthalic acid. Usage level: 0.05-1% Accelerator COB-6 and 1-5% peroxide in the supply form, possibly 0.1-0.8% Inhibitor TC-510. "Shelf-life" (gel time of resin + accelerator) up to several months depending on temperature and resin type but with considerable loss of activity. "Pot-life" (gel time of resin + accelerator + peroxide) variable from some minutes up to some hours depending on the quantity of ketone peroxide and inhibitor or up to several days depending on peroxide type (e.g. perester). Moderate development of heat, relatively long mould release times i.e. moderate mould release factor except in combination with acetyl acetone peroxide. With special peroxide mixtures a moderate peak exotherm, little internal stress and relatively short mould release times can be achieved, even in thick laminates. Reasonable accelerating effect up to about 100°C as well as down to about 20°C. A good degree of cure can be achieved particularly with adequate post-curing. The reddish or greenish discolouration of the finished parts is kept within limits even with weatherageing. In particular hand lay-up, spray lay-up, injection moulding, rotational moulding, casting and coating. Versatile and flexible by using various curing agents e.g. all types of ketone peroxides or certain peresters and hydroperoxides.

Specification:

Specification				
Test Parameter	Min.	Max.	Unit	Test method
Cobalt	5,8	6,2	%	ISO 4619 - 1980

(unless otherwise indicated, %-figures are given as % by weight/weight).

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